



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: March 7, 2012
SUBJECT: Region III Data QA Review
FROM: Colleen Walling *Colleen Walling*
Region III ESAT RPO (3EA20)
TO: Rich Fetzer
Remedial Project Manager (3HS31)

*TAm
w/c 4*

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS:# R33917; SDG: #480-16127-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042 TDF: 03014 Data Validation
TO: #0042 TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

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Date: March 07, 2012

Subject: Organic Data Validation (M3 Level)
Case: R33917
Project: 480-16217-1
Site: Dimock

From: Ex. 4 - CBI
Organic Data Reviewer
Ex. 4 - CBI
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 480-16217-1, consisted of thirteen (13) aqueous samples including two (2) field blanks analyzed for ethylene glycol. Samples were analyzed by TestAmerica Buffalo (TAL BUF) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with respect to data usability are listed below.

MINOR PROBLEM

- The laboratory employed a four (4) point calibration curve for the analysis of the compounds requested; however, Method 8015B specifies the use of a five (5) point curve. No action was taken by the reviewer based on this deviation from the method.

NOTES

- Ethylene glycol failed precision criteria [Percent Difference (%D)] in a continuing calibration. No positive results were reported for this compound. Quantitation limits for this compound were not impacted since the %D did not exceed the 50% criteria.

Sample Summary

Client: Techlaw, Inc
Project/Site: TechLaw Project No. R33917 (EG only)

TestAmerica Job ID: 480-16217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-16217-1	FB17	Water	02/14/12 09:09	02/16/12 10:00
480-16217-2	FB18	Water	02/15/12 09:45	02/16/12 10:00
480-16217-3	HW03 <i>u</i>	Water	02/14/12 15:18	02/16/12 10:00
480-16217-4	HW03Z	Water	02/14/12 15:19	02/16/12 10:00
480-16217-5	HW07 <i>u</i>	Water	02/15/12 11:36	02/16/12 10:00
480-16217-6	HW11 <i>u</i>	Water	02/13/12 15:05	02/16/12 10:00
480-16217-7	HW11-P	Water	02/13/12 15:22	02/16/12 10:00
480-16217-8	HW53 <i>u</i>	Water	02/13/12 14:57	02/16/12 10:00
480-16217-9	HW53-P	Water	02/13/12 15:17	02/16/12 10:00
480-16217-10	HW57 <i>u</i>	Water	02/14/12 10:07	02/16/12 10:00
480-16217-11	HW57-P	Water	02/14/12 10:31	02/16/12 10:00
480-16217-12	HW58 <i>u</i>	Water	02/14/12 14:47	02/16/12 10:00
480-16217-13	HW59 <i>u</i>	Water	02/14/12 10:33	02/16/12 10:00

WK

2. **HPC Holding Times:** The 8-hour holding time for HPC was exceeded for 15 of the 17 samples. Those samples exceeding the holding time are highlighted in gray below. Depending on other water quality factors an extended holding time may cause the number of bacteria present to increase, decrease, or remain unchanged. Results therefore are estimates and may be biased high, low, or not affected.

FB16	HW03	HW11	HW27Z	HW55	HW58
FB17	HW03Z	HW11P	HW53	HW57	HW59
FB18	HW07	HW27	HW53P	HW57P	

3. **HPC Method Blanks:** A method blank (or agar sterility control plate) was not included with each series of samples plated. Consequently, without a clean method blank showing no growth, the HPC results obtained could be due to contamination of a sample during analysis at the bench. The results (of samples in gray) cannot be validated.

FB16	HW03	HW11	HW27Z	HW55	HW58
FB17	HW03Z	HW11P	HW53	HW57	HW59
FB18	HW07	HW27	HW53P	HW57P	

4. **HPC Agar Positive Control:** No agar batch positive control results were provided in the QC data package. Results for all samples (highlighted below in gray) are affected and may be biased low, especially results indicating <1 CFU/mL.

FB16	HW03	HW11	HW27Z	HW55	HW58
FB17	HW03Z	HW11P	HW53	HW57	HW59
FB18	HW07	HW27	HW53P	HW57P	

Conclusions

Table 1. presents the final data qualifications for Week 4 samples where they apply. The number in parentheses corresponds to the data quality issue discussed above. (The numbers are not related to issues listed in other data validation reports.)

Table 1. Data Qualifiers -- Week 4

SAMPLE	QUALIFIERS for TC/FC DATA	QUALIFIERS for HPC DATA
FB16		R (3)
FB17	K(1)	R (3)
FB18		R (3)
FB03	K(1)	R (3)
HW03Z	K(1)	R (3)
HW07		R (3)
HW11		R (3)
HW11P		R (3)
HW27		R (3)
HW27Z		R (3)
HW53		R (3)
HW53P		R (3)
HW55		R (3)
HW57	K(1)	R (3)
HW57P	K(1)	R (3)
HW58	K(1)	R (3)
HW59	K(1)	R (3)